To: Rusty[Rusty.T.Joins@wv.gov]; Matlock, Dennis[Matlock.Dennis@epa.gov]

From: Dorsey, Mike H

Sent: Mon 2/24/2014 1:57:28 PM

Subject: Fwd: MCHM fate and biotransformation proposal Biodegradation of MCHM Concept Proposal.draft ml.docx ATT00001.htm

FYI.

Sent from my iPhone

Begin forwarded message:

From: "Campbell, Patrick V" < Patrick. V. Campbell@wv.gov>

Date: February 24, 2014 at 8:55:52 AM EST

To: "Dorsey, Mike H" < Mike.H.Dorsey@wv.gov>, "Hickman, Joseph M"

<Joseph.M.Hickman@wv.gov>

Cc: "Mandirola, Scott G" < Scott.G. Mandirola@wv.gov>

Subject: FW: MCHM fate and biotransformation proposal

Mike/Joe – looks like the USGS science guys have been doing some heavy thinking on mchm degradation. I've asked them for info on price and how qwik we could get some preliminary answers.

I'd be interested to know if this piques y'alls interest, or if you believe it is more of Freedom's problem.

One end product may be identification of bugs that like to eat mchm, or mchmpetroleum mixes. In the other places they've come up with a hungry bug mix, then had contractors deploy them as part of the cleanup.

From: Chambers, Douglas [mailto:dbchambe@usgs.gov]

Sent: Thursday, February 20, 2014 2:07 PM **To:** Campbell, Patrick V; Wirts, John C

Subject: MCHM fate and biotransformation proposal

Pat, John,

When I was working in the Baltimore office over the past few years I became acquainted with the researchers on the Fate and Bioremediation Team there. These folks have been working on tracking the environmental fate and degradation of compounds at locations such as Aberdeen Proving Grounds and White Sands Missile Range. I spoke to them about the MCHM spill, just to get their take on the situation. After some thought they came up with the following. I felt it was worth passing along to you.

--

Douglas B. Chambers

Biologist/Water-Quality Specialist

USGS West Virginia Water Science Center

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